

Practitioner's Docket No. 99CR100/KE

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application of: C. David Young et al.

Application No.: 09/649,802

Group No.: 2667

Filed: August 29, 2000

Examiner: B. Wong

For: Maintaining An Adaptive Broadcast Channel Using Both Transmitter Directed And Receiver Directed Broadcasts

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Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

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BEFORE MAILING DATE OF EITHER A FINAL ACTION  
OR NOTICE OF ALLOWANCE (37 C.F.R. § 1.97(c))

TIME OF TRANSMITTAL OF ACCOMPANYING  
INFORMATION DISCLOSURE STATEMENT

1. The information disclosure statement transmitted herewith is being filed *after* three months of the filing date of this national application or the date of entry of the national stage as set forth in Section 1.491 in an international application or after the mailing date of the first Office action on the merits, whichever event occurred last but *before* the mailing date of either

- (1) a final action under § 1.113 or  
(2) a notice of allowance under § 1.311

whichever occurs first.

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10\*

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I hereby certify that, on the date shown below, this correspondence is being:

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37 C.F.R. § 1.8(a)

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37 C.F.R. § 1.10\*

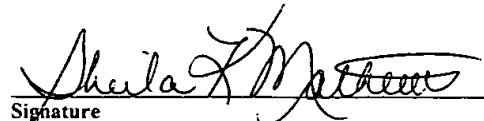
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Date: June 11, 2004

  
Signature

Sheila K. Mathews

(type or print name of person certifying)

\* Only the date of filing (' 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under ' 1.8 continues to be taken into account in determining timeliness. See ' 1.703(f). Consider "Express Mail Post Office to Addressee" (' 1.10) or facsimile transmission (' 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

### **FEE**

2. Accompanying this transmittal is the fee for submission of an information disclosure statement under section 1.97(c). (\$180.00)

### **FEE PAYMENT**

3. Applicant elects the option to pay the fee set forth in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under § 1.97(c) (\$180.00).

Fee due \$180.00

### **METHOD OF PAYMENT OF FEE**

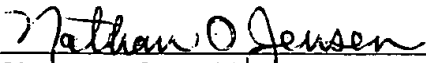
4. Authorization is hereby made to charge the amount of \$180.00 to Deposit Account No. 18-1722.

Charge any additional fees required by this paper or credit any overpayment in the manner authorized above.

A duplicate of this paper is attached.

Date: June 11, 2004

Reg. No.: 41,460  
Tel. No.: 319-295-1184  
Customer No.: 26383

  
\_\_\_\_\_  
Signature of Practitioner

Nathan O. Jensen  
Rockwell Collins, Inc.  
Intellectual Property Department M/S 124-323  
400 Collins Road NE  
Cedar Rapids, IA 52498



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: ) GROUP ART UNIT: 2667  
INVENTOR: C.David Young et al. ) EXAMINER: B. Wong  
SERIAL NO.: 09/649,802 ) DOCKET REF.: 99CR100/KE  
FILED: August 29, 2000 ) SUBMITTED: June 11, 2004

FOR: MAINTAINING AN ADAPTIVE BROADCAST CHANNEL USING BOTH  
TRANSMITTER DIRECTED AND RECEIVER DIRECTED BROADCASTS

INFORMATION DISCLOSURE STATEMENT

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Hon. Commissioner of Patents and Trademarks  
Washington, D.C. 20231

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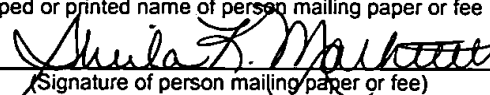
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Dear Sir:

In accordance with 37 C.F.R. §1.56, the references listed below and on the  
attached for PTO-1449 are being brought to the attention of the Examiner for  
consideration in connection with the examination of the above-identified patent  
application. Copies of the cited documents, other than non-U.S. Patents and Published  
U.S. Applications, are enclosed.

06/17/2004 MMEKONEN 00000089 181722 09649802

01 FC:1806 180.00 DA

Express Mail Mailing Label	EV 228571445 US
Date of Deposit	June 11, 2004
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Sheila K. Mathews	
Typed or printed name of person mailing paper or fee	
	
(Signature of person mailing paper or fee)	

# English-Language Documents

U.S. Patent No.	Inventor	Issue Date (Month/Year)
6,094,429	Blanchette et al.	07/2000
6,324,184	Hou et al.	11/2001
5,625,629	Wenk	04/1997
6,310,867	Tat et al.	10/2001
5,949,760	Stevens et al.	09/1999
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6,711,177	Young et al.	03/2004
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6,529,443	Downey et al.	03/2003
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6,643,322	Varma et al.	11/2003
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6,122,293	Frodigh et al.	09/2000
5,909,469	Frodigh et al.	06/1999

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U.S. Published Patent Application No.	Inventors	Publication Date
2002/0046381	Morris et al.	04/2002
2002/0001294	Amouris	05/2001
2003/0202574	Budka et al.	10/2003

#### Other English Language Documents:

L. Pond and V. Li, "Bridging the Gap Interoperability, Survivability, Security," 1989 IEEE MILCOM, Conference Record, Volume 1 of 3.

Bittle, Caples, Young, "Soldier Phone: An Innovative Approach to Wireless Multimedia Communications," 1998 IEEE MILCOM, Volume 3.

Sunlin, "A Hybrid Distributed Slot Assignment TDMA Channel Access Protocol," IEEE Military Communications Conference, 1990, Volume 3 of 3.

Young and Stevens, "Clique Activation Multiple Access (CAMA): A Distributed Heuristic for Building Wireless Datagram Networks," IEEE Military Communications Conference 1998, Volume 1.

Ju et al. "An Optimal Topology-Transport Scheduling Method in Multihop Packet Radio Networks." IEEE/ACM Transactions on Networking. June 1998. Pages 298-306.

Chakraborty et al. "Generic Algorithm for Broadcast Scheduling in Packet Radio Networks," Evolutionary Computation Proceedings, 1998. IEEE World Congress on Computational Intelligence. 4-9 May 1998. Pages 183-188.

Pond et al. "A Distributed Time-Slot Assignment Protocol for Mobile Multi-Hop Broadcast Packet Radio Networks," IEEE MILCOM, 1989. 15-18 October 1989. Pages 70-74.

Arikan, E. "Some Complexity Results about Packet Radio Networks," IEEE Transactions on Information Theory, v.IT-30, No. 4, July 1984, Pages 681-685.

Chou et al. "Slot Allocation Strategies for TDMA Protocols in Multihop Packet Radio Network." Eleventh Annual Joint Conference of the IEEE Computer and Communications Societies. 4-8 May 1992. Pages 710-716.

Oono et al. "Dynamic Slot Allocation Technology for Mobile Multi-Media TDMA Systems Using Distributed Control Scheme," IEEE. 12-16 Oct 1997. Pages 74-78.

Young, "USAP: A Unifying Dynamic Distributed Multichannel TDMA Slot Assignment Protocol," Proc. IEEE MILCOM 1996, vol. 1, October 1996.

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Foreign Documents

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None

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This disclosure statement should not be construed as a representation that a search has been completed or that no other material information as defined in 37 C.F.R. §1.56(a) exists.


It is believed that this disclosure complies with the requirements of 37 C.F.R. §§ 1.56, 1.97, and 1.98, and the Manual of Patent Examining Procedures §609. If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

Some of the documents may have markings thereon. No significance is meant to the attached markings.

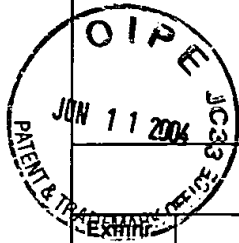
These documents are not necessarily analogous art.

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO-1449 with initials or other appropriate marks.

Respectfully submitted,

  
Nathan O. Jensen  
Attorney of Record  
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Customer No. 26383



## INFORMATION DISCLOSURE

## CITATION

Attorney Docket No.

99CR100/KE

Serial Number

Applicant

C. David Young et al.

Filing Date

August 29, 2000

Group

## U. S. PATENTS

Initl	Document No.	Issue Date	Name	Class	Subclass	Filing Date
	6,304,559	12-2001	Jacklin et al.	370	310	
	5,117,422	05-1992	Hauptschein et al.	370	255	
	5,245,609	09-1993	Ofek et al.	370	348	
	5,448,698	09-1995	Wilkes	395	200.01	
	5,598,417	01-1997	Crisler et al.	370	348	
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	5,920,703	07-1999	Campbell et al.	709	236	
	6,084,889	07-2000	Murakami	370	474	
	5,457,681	10-1995	Gaddis et al.	370	402	
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	2002/0046381 A1	04-2002	Morris et al.	714	752	
	2002/0001294 A1	05-2001	Amouris	370	337	
		04-1998	Sharony et al.	370	330	
	5,594,720	01-1997	Papadopolous et al.	370	330	
	6,353,598	03-2002	Baden et al.	370	280	
	6,631,124	10-2003	Koorapaty et al.	370	337	
	6,094,425	07-2000	Auger et al.	370	330	
	6,489,996	10-2000	Dupuy	370	337	

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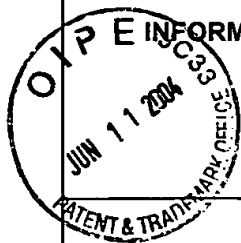
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## Other Documents

Examiner

Date Considered

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



## INFORMATION DISCLOSURE

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## U. S. PATENTS

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	6,711,177	03-2004	Young et al.	370	468	
	6,384,739	05-2002	Roberts, Jr. et al.	340	905	
	6,369,719	04-2002	Tracy et al.	340	870.02	
	6,014,089	01-2000	Tracy et al.	340	870.02	
	6,529,443	03-2003	Downey et al.	367	76	
	6,088,659	07-2000	Kelley et al.	702	62	
	6,556,899	04-2003	Harvey et al.	701	29	
	6,256,477	07-2001	Eidson et al.	455	63.3	
	6,414,955	07-2002	Clare et al.	370	390	
	6,389,273	05-2002	Brandenburg	455	296	
	6,466,793	10-2002	Wallstedt et al.	455	450	
	6,256,304	07-2001	Vayrynen	370	350	
	6,553,424	04-2003	Kranz et al.	709	234	
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	5,295,140	03-1994	Crisler et al.	370	443	
	4,504,946	03-1985	Raychaudhuri	370	322	
	6,151,319	11-2000	Dommetty et al.	370	395.52	
	5,719,868	02-1998	Young	370	436	
	6,643,322	11-2003	Varma et al.	375	227	
	6,515,972	02-2003	Gage et al.	370	328	
	6,122,293	09-2000	Frodigh et al.	370	473	
	5,909,469	06-1999	Frodigh et al.	375	302	
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	6,498,667	12-2002	Masucci et al.	398	98	

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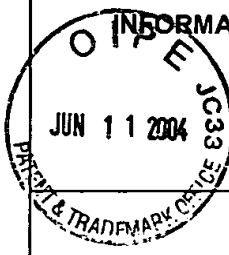
## Other Documents

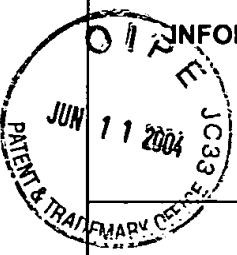
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			Applicant C. David Young et al.			
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	4,763,322	08-1988	Eizenhofer	370	337	
	6,157,656	12-2000	Lindgren et al.	370	458	
<b>Foreign Patent Documents</b>						
	Document No.	Date	Country	Class	Subclass	Translation Yes      No
<b>Other Documents</b>						
	L. Pond and V. Li, "Bridging the Gap Interoperability, Survivability, Security," 1989 IEEE MILCOM, Conference Record, Volume 1 of 3					
	Bittle, Caples, Young, "Soldier Phone: An Innovative Approach to Wireless Multimedia Communications," 1998 IEEE MILCOM, Volume 3.					
	Sunlin, "A Hybrid Distributed Slot Assignment TDMA Channel Access Protocol," IEEE Military Communications Conference, 1990, Volume 3 of 3.					
	Young and Stevens, "Clique Activation Multiple Access (CAMA): A Distributed Heuristic for Building Wireless Datagram Networks," IEEE Military Communications Conference 1998, Volume 1 Ju et al. "An Optimal Topology-Transport Scheduling Method in Multihop Packet Radio Networks." IEEE/ACM Transactions on Networking. June 1998. Pages 298-306.					
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<b>INFORMATION DISCLOSURE</b>  <b>CITATION</b>	<b>Attorney Docket No.</b> 99CR100/KE	<b>Serial Number</b>
	<b>Applicant</b> C. David Young et al.	
	<b>Filing Date</b> August 29, 2000	<b>Group</b>

**U. S. PATENTS**

Exmnr Initl	Document No.	Issue Date	Name	Class	Subclass	Filing Date
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	5,450,394	09-1995	Gruber et al.	370	17	
	5,502,722	03-1996	Fulghum	370	69	
	5,568,477	10-1996	Galand et al.	370	60	
	5,652,751	07-1997	Sharony	340	2.4	
	5,696,903	12-1997	Mahany	709	228	
	6,314,084	11-2001	Kahale et al.	370	230	
	5,581,548	12-1996	Ugland et al.	370	330	
	5,506,848	04-1996	Drakopolous et al.	370	336	

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**Foreign Patent Documents**

Document No.	Date	Country	Class	Subclass	Translation Yes      No

**Other Documents**

	Chakraborty et al. "Generic Algorithm for Broadcast Scheduling in Packet Radio Networks," Evolutionary Computation Proceedings, 1998. IEEE World Congress on Computational Intelligence. 4-9 May 1998. Pages 183-188.
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	Arikan, E. "Some Complexity Results about Packet Radio Networks," IEEE Transactions on Information Theory, v.IT-30, No. 4, July 1984, Pages 681-685.
	Chou et al. "Slot Allocation Strategies for TDMA Protocols in Multihop Packet Radio Network." Eleventh Annual Joint Conference of the IEEE Computer and Communications Societies. 4-8 May 1992. Pages 710-716.
	Oono et al. "Dynamic Slot Allocation Technology for Mobile Multi-Media TDMA Systems Using Distributed Control Scheme," IEEE. 12-16 Oct 1997. Pages 74-78.
	Young, "USAP: A Unifying Dynamic Distributed Multichannel TDMA Slot Assignment Protocol," Proc. IEEE MILCOM 1996, vol. 1, October 1996

<b>Examiner</b>	<b>Date Considered</b>
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